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EXAMINER

WANG, QUAN ZHEN

ART UNIT	PAPER NUMBER
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2613

NOTIFICATION DATE	DELIVERY MODE
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07/14/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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pto.phil@dlapiper.com

Office Action Summary	Application No. 10/536,954	Applicant(s) PAMART ET AL.	
	Examiner QUAN-ZHEN WANG	Art Unit 2613	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 May 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 24-46 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 24-46 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 May 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “optical gate comprising a slave local clock” must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 24-38 and 40-46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 24 recites the limitation of “an optical gate comprising a slave local clock”, However, nowhere did the specification as it was originally filed teach or suggest the cited limitation. Therefore, the limitation is considered new matter. Claims 38 and 46 recite the similar limitation.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 24-38 and 40-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 24 recites more than one “a slave local clock”, namely “a local clock” in each of the transmitter and “a local clock” in the “optical gate”. However, it is unclear how these two “local clock” relate each other.

Regarding claims 24, 38, and 46, the phrase "type" renders the claim indefinite.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 24, 29-32 and 38-39** are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolf (U.S. Patent Application Publication US 2001/0038475 A1), in view of John Hait (US Patent Application Publication No. 2002/0018259), and further in view of Akiyama (U.S. Patent Application Publication US 2002/0067527 A1).

Regarding **claims 24 and 38**, as they are understood in view of the above 112 problems, Wolf teaches a process and corresponding apparatus for transmitting data on an optical fiber comprising multiplexing in wavelength signals coming from a plurality of monochrome transmitters, each of which has its own wavelength (figure 2 teaches an embodiment wherein there are a plurality of transmitters that transmit electrical signals and modulate them on optical signals with a unique wavelength for each transmitter) and a slave local clock (paragraph 3 teaches a slave clock in lower level network elements), wherein each slave local clock from each transmitter is controlled by a synchronization circuit comprising a master clock and a phase locked loop (PLL) (paragraph 3 teaches a master clock for synchronizing slave clocks and paragraph 22 teaches a phase-locked loop as a method for synchronizing signals), said master clock

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controlling the clock of each slave local clock by using said phase locked loop which supplies the synchronization signal for each of the transmitters (paragraph 3 teaches the master clock and paragraph 22 teaches the PLL for synchronization purposes). However, Wolf does not teach modulating the information to be transmitted by a carrier realized per channel and formatting the multiplexed signal by an optical gate. It is well-known in the art to modulate information at an optical source and format the information with a gate. For example, Hait teaches a device wherein modulation is performed at a source prior to multiplexing and a gate is used to format the signal (paragraph 14 teaches the modulation and gate). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf with the modulation and gate of Hait for an apparatus in accordance with this scheme that will work well with a wide variety of photonic modulation methods, including amplitude, phase, polarization and spatial modulation for data pulses as well as synchronization pulses (paragraph 13 teaches this advantage). Wolf and Hait differ from the claimed invention in that Wolf and Hait do not specifically disclose that the optical gate is controlled by a clock. However, to control an optical gate using a clock signal is well known in the art. For example, Akiyama discloses in the prior art to control an optical gate with a clock signal (figs. 1-2). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to incorporate the controlling of an optical gate using a clock signal, as shown by Akiyama, in the modified system of Wolf and Hait. The motivation for doing so would have been to select desired optical signal at specific time slots.

Regarding **claim 29**, Wolf and Hait teach the limitations of claim 24. Wolf further teaches a process comprising synchronizing streams (pulses) emitted by the transmitters (paragraph 5 teaches synchronization signals for synchronizing the data emitted by the transmitters).

Regarding **claim 30**, Wolf and Hait teach the limitations of claim 24. Wolf further teaches a process wherein the formatting comprises aligning the phase of signals generated by the transmitters (paragraph 22 teaches a phase locked loop that locks and aligns the phases).

Regarding **claim 31**, Wolf and Hait teach the limitations of claim 30. Wolf further teaches a process wherein the aligning is subject to ambient parameters to compensate for temporal signal variations (paragraph 22 teaches the signals being synchronized with the synchronization signals after transmission through a network that inherently includes ambient parameters).

Regarding **claim 32**, Wolf and Hait teach the limitations of claim 30. Wolf further teaches a process wherein the aligning is subject to ambient parameters to compensate for differences and variations between optical paths (paragraph 11 teaches different optical paths for the signals and paragraph 22 teaches the signals being synchronized with the synchronization signals after transmission through a network that inherently includes ambient parameters and explicitly includes different optical paths).

Regarding **claim 39**, Wolf teaches the limitations of claim 38. However, Wolf does not teach an apparatus further comprising an optical gate that receives multiplexed optical carriers and a cutting signal produced by the master clock. Wolf

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does teach multiplexed signals (paragraph 19 teaches a multiplexer that receives optical signals and also teaches synchronization or cutting signals) and it is known in the art to use optical gates to receive multiplexed signals. It is known in the art to use an optical gate to receive multiplexed signals. For example, Hait teaches a device wherein a gate is used to format the signal (paragraph 14 teaches the modulation and gate). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf with the modulation and gate of Hait for an apparatus in accordance with this scheme that will work well with a wide variety of photonic modulation methods, including amplitude, phase, polarization and spatial modulation for data pulses as well as synchronization pulses (paragraph 13 teaches this advantage).

8. **Claims 25-28** are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolf, in view of Hait and further in view of Bosotti.

Regarding **claim 25**, Wolf and Hait teach the limitations of claim 24. However, they do not teach a process further comprising formatting the data that is common and simultaneous for all carriers. It is known in the art to format data that is common and simultaneous for all carriers. For example, Bosotti teaches formatting the data that is common and simultaneous for all carriers (column 2, lines 10-36 teach aligning the phases at their peaks and troughs, a type of formatting, based on the common clock frequency between all carriers simultaneously). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to

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combine the teachings of Wolf and Hait with the simultaneous data formatting of Bosotti for keeping crosstalk between channels to a minimum (column 2, lines 10-17 teach this advantage).

Regarding **claim 26**, Wolf, Hait and Bosotti teach the limitations of claim 25.

Bosotti further teaches a process wherein the formatting comprises optimizing the form of the signal as a function of characteristics of propagation of an associated transport means (column 2, lines 10-22 teach optimizing (by minimizing) the signal degradation by formatting the data). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further include Bosotti's teaching of optimizing the form of the signal as a function of characteristics of propagation for further carrying out the reduction of crosstalk between channels and keeping the crosstalk at a minimum (column 2, lines 10-17 teach this advantage).

Regarding **claim 27**, Wolf, Hait and Bosotti teach the limitations of claim 25.

Bosotti further teaches a formatting process comprising optimizing optical parameters of the signal as a function of the characteristics of propagation of an associated transport means (column 2, lines 10-22 teach optimizing (by minimizing) the signal degradation by formatting the optical data where the signal degradation is due to crosstalk, which is an associated transport means). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teachings of Wolf and Hait with the simultaneous data formatting of Bosotti for keeping crosstalk between channels to a minimum (column 2, lines 10-17 teach this advantage).

Regarding **claim 28**, Wolf, Hait and Bosotti teach the limitations of claim 25.

Bosotti further teaches a process wherein the formatting comprises an operation of stabilizing temporal parameters of data (column 2, lines 23-36 teach aligning the signal periods which are a temporal parameter of the data signal). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further combine the teachings of Wolf and Hait with the stabilization of temporal parameters of data taught by Bosotti for further suppressing noise interference to prevent noise from being introduced into the demodulated data stream (column 2, lines 41-47 teach this advantage).

9. **Claims 33-37 and 40-44** are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolf, in view of Hait and Akiyama, and further in view of Mussino (U.S. Patent US 5,812,297).

Regarding **claim 33**, Wolf, Hait, and Akiyama teach the limitations of claim 24. However, they do not teach an embodiment wherein each element of the multiplexer is signed before multiplexing by a frequency marker applied on the phase. It is known in the art to use frequency markers applied on the phase. For example, Mussino teaches applying a frequency marker to a phase before transmitting (column 8, lines 13-17 teach phase modulating a pilot tone, which is equivalent to a frequency marker applied on the phase, and figure 1, items 6 and 7 teach the modulation as being applied before the signal enters any network or multiplexer). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the

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teachings of Wolf, Hait, and Akiyama with the teaching of Mussino for encoding information about bias voltage, or possibly another physical system value, onto a pilot tone in an optical signal (column 2, lines 59-67 teach this advantage).

Regarding **claim 34**, Wolf, Hait, and Akiyama teach the limitations of claim 24. However, they do not teach a process wherein each element of the multiplex is signed before multiplexing by a frequency marker applied on the amplitude. Mussino teaches applying a frequency marker to an optical signal's amplitude before multiplexing (column 8, lines 13-17 teach amplitude modulating a pilot tone, which is equivalent to a frequency marker applied on the phase, and figure 1, items 6 and 7 teach the modulation as being applied before the signal enters any network or multiplexer). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf, Hait, and Akiyama with the teaching of Mussino for encoding information about bias voltage on a pilot tone in an optical signal (column 2, lines 59-67 teach this advantage).

Regarding **claim 35**, Wolf, Hait, Akiyama and Mussino teach the limitations of claim 34. Mussino further teaches a process where the marker comprises a signal with a predetermined spectrum (column 2, lines 60-61 teach the pilot tone having a predetermined frequency, or spectrum). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further include Mussino's teaching of a predetermined frequency spectrum for detecting a feedback for altering the control of the output modulation signal (column 4, lines 34-39 teach this advantage).

Regarding **claim 36**, Wolf, Hait, Akiyama, and Mussino teach the limitations of claim 34. Mussino further teaches a process where the marker comprises a signal with a spectrum whose characteristics are a function of the disturbances undergone by the signal on a corresponding path (column 3, lines 20-25 teach looking for the presence of disturbances based on the pilot signals). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further include Mussino's teaching of looking for disturbances for restricting distortions of signals in optical lines (column 3, lines 13-19 teach this advantage).

Regarding **claim 37**, Wolf, Hait, Akiyama, and Mussino teach the limitations of claim 34. Mussino further teaches the process where characteristics of the marker are determined to disturb a marked signal in such a manner that marking is evanescent during passage through the gate (column 8, lines 27-36 teach attenuating the pilot tone by adding it with a phase shifted version of itself as it propagates through the gate). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further include the evanescent, or attenuating, teachings of Mussino for modifying the spectrum of the signal entering the amplifier only at the exact frequency of the pilot tone (column 8, lines 37-39 teach this advantage).

Regarding **claim 40**, Wolf, Hait, and Akiyama teach the limitations of claim 38. However, they do not teach an apparatus further comprising frequency marking circuits for each element of the multiplex. Mussino teaches a frequency marking circuit for a transmitter (column 8, lines 48-53 teach a quartz oscillator element for generating pilot tones for imposing a lower-frequency modulation on a signal prior to entering a network

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or Application/Control Number: 10/536,954 Page 12 Art Unit: 2613 multiplexer, wherein the oscillator is inherently part of a circuit requiring an active power source). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf, Hait, and Akiyama with the teaching of Mussino for encoding information about bias voltage, or possibly another physical system value, onto a pilot tone in an optical signal (column 2, lines 59-67 teach this advantage).

Regarding **claim 41**, Wolf, Hait, Akiyama, and Mussino teach the limitations of claim 40. Mussino further teaches the frequency marking circuit applying the marking signal onto a transmitter (column 8, lines 55-57 teach the marking signal being applied to the modulator of a transmitter). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to further include Mussino's teaching for encoding information about bias voltage, or possibly another physical system value, onto a pilot tone in an optical signal (column 2, lines 59-67 teach this advantage). Wolf and Mussino do not teach a plurality of frequency marking circuits and transmitters. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use multiple circuits for the multiple transmitters of Wolf's embodiment (paragraph 19 teaches the plurality of signals being transmitted from multiple transmitters) since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

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Regarding **claim 42**, Wolf, Hait, Akiyama, and Mussino teach the limitations of claim 40. Wolf further teaches a synchronizer for each path (paragraph 19 teaches the system as having a synchronizer device that sends synchronization signals over the network). However, Wolf does not teach a frequency marking for the synchronizer. Mussino teaches applying a frequency marker to a phase before transmitting (column 8, lines 13- 17 teach a frequency marking via phase of a pilot tone, which is equivalent to a frequency marker applied on the phase, and figure 1, items 6 and 7 teach the modulation as being applied before the signal enters any network or multiplexer). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf with the teaching of Mussino for encoding information about bias voltage, or possibly another physical system value, onto a pilot tone in an optical signal (column 2, lines 59-67 teach this advantage).

Regarding **claim 43**, Wolf, Hait, and Akiyama teach the limitations of claim 389. However, they do not teach an apparatus wherein the optical gate comprises a detector for each marker to control characteristic of the formatting and adjustment of the phase of a corresponding path. Mussino teaches applying a frequency marker to a phase before transmitting (column 8, lines 13-17 teach a frequency marking via phase of a pilot tone, which is equivalent to a frequency marker applied on the phase, and figure 1, items 6 and 7 teach the modulation as being applied before the signal enters any network or multiplexer). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teachings of

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Wolf, Hait, and Akiyama with the teaching of Mussino for encoding information about bias voltage, or possibly another physical system value, onto a pilot tone in an optical signal (column 2, lines 59- 67 teach this advantage).

Regarding **claim 44**, Wolf, Hait, and Akiyama teach the limitations of claim 38. However, they do not teach an apparatus wherein the optical gage comprises a spectral analyzer for the marker to adjust the phase of each path. Mussino teaches a spectral analyzer for the marker to adjust the phase of each path (column 4, lines 5-8 teach a linearizer circuit that adjusts the frequency-dependent input into a pre-determined output, inherently performing a spectral analysis and system response to the signal, and column 5, lines 16-21 teach the linearizer circuit adjusting the phase of the frequency-marking pilot signal). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teachings of Wolf, Hait, and Akiyama with the teaching of Mussino for predistorting signals to reduce distortions in transmission (column 2, lines 37-45 teach this advantage).

10. **Claim 45** is rejected under 35 U.S.C. 103(a) as being unpatentable over Wolf, in view of Hait and Akiyama, and further in view of Takeuchi.

Regarding **claim 45**, Wolf, Hait, and Akiyama teach the limitations of claim 38. Wolf further teaches a demultiplexer (paragraph 20 teaches a demultiplexer). However, Wolf, Hait, and Akiyama do not teach an optical converter and a clock connected to at least one of the converters. Takeuchi teaches an optical converter and a clock connected to the converter (column 7, lines 23-30 teach the conversion of a clock signal

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to an optical transmission). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Wolf, Hait, and Akiyama with the teaching of Takeuchi for performing packet switching in an optical network wherein the retiming of packet data in the output section is facilitated and an increase in the scale of the circuitry is suppressed (column 4, lines 31-37 teach this advantage).

11. **Claim 46** is rejected under 35 U.S.C. 103(a) as being unpatentable over Mussino in view of Wolf and further in view of Akiyama.

Regarding **claim 46**, as it is understood in view of the above 112 problems, Mussino teaches a counter-reaction circuit for an apparatus that transmits data on an optical fiber and which generates a frequency marker (column 2, lines 59-67 teach applying a sinusoidal pilot tone signal, or frequency marker) for injecting a disturbing spectral signal of a transmitter comprising a detector (column 2, line 63 teaches the detector) for an output signal of a gate that acts on an automatic controller of a transmitter phase that obtains a selected spectral transformation of each marker (column 5, lines 16-21 teach a linearizer circuit which receives a spectral signal as an input and automatically performs operations according to predetermined values to operate on the phase). However, Mussino does not teach an embodiment comprising a plurality of monochrome transmitters, each of which has its own transmission wavelength, with each transmitter having a slave clock. It is known in the art to use a plurality of monochrome transmitters with their own transmission wavelengths with a

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slave clock. For example, Wolf teaches an apparatus with a plurality of monochrome transmitters (figure 2 teaches an embodiment wherein there is a plurality of transmitters that transmit electrical signals and modulate them on optical signals with a unique wavelength for each transmitter and paragraphs 3 and 20 teach a slave clock at the transmitting nodes in a master-slave relationship). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine the teaching of Mussino with the multiple transmitters and slave clock of Wolf for synchronizing a plurality of transmitted wavelengths to different stations (paragraph 19 teaches this advantage). Mussino and Wolf differ from the claimed invention in that Mussino and Wolf do not specifically disclose that the optical gate is controlled by a clock. However, to control an optical gate using a clock signal is well known in the art. For example, Akiyama discloses in the prior art to control an optical gate with a clock signal (figs. 1-2). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to incorporate the controlling of an optical gate using a clock signal, as shown by Akiyama, in the modified system of Mussino and Wolf. The motivation for doing so would have been to select desired optical signal at specific time slots.

Response to Arguments

12. Applicant's arguments filed 3/9/2009 have been fully considered but they are moot in view of the new grounds of rejections.

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13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to QUAN-ZHEN WANG whose telephone number is (571) 272-3114. The examiner can normally be reached on 9:00 AM - 5:00 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

7/8/2009

/Quan-Zhen Wang/

Examiner, Art Unit 2613